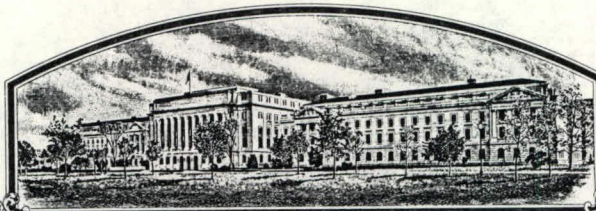


No.



8100098

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Terra Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (U.S.C. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Deltapine SR-980'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 19th day of November in the year of our Lord one thousand nine hundred and eighty-one.

Attest:

Kenneth P.
Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture



5891

No.



8100098

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Delta & Pine Land Co.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (7 U.S.C. 2321 ET SEQ.)

COTTON

'Deltapine SR-980'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 19th day of November in the year of our Lord one thousand nine hundred and eighty-one.

Attest:

Benard J. Lee
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture



1981

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY 6865-980-02-210		1b. VARIETY NAME Deltapine SR-980		FOR OFFICIAL USE ONLY PV NUMBER 8100098	
2. KIND NAME Cotton		3. GENUS AND SPECIES NAME Gossypium hirsutum		FILING DATE 4/22/81	TIME 10:30 A.M. P.M.
4. FAMILY NAME (BOTANICAL) Malvaceae		5. DATE OF DETERMINATION December, 1973		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 4/22/81 9/16/81
6. NAME OF APPLICANT(S) Delta & Pine Land Co.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Rt 1, Box 110 Lubbock, Texas 79401		8. TELEPHONE AREA CODE AND NUMBER (806) 762-0534	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Delaware		11. DATE OF INCORPORATION 10/19/78	
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Research Department Delta & Pine Land Company Route 1, Box 110, Lubbock, Texas 79401					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☒ YES ☐ NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? ☐ FOUNDATION ☐ REGISTERED ☒ CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

April 3, 1981
(DATE)

Gerry D. Carroll - Cotton Breeder
(SIGNATURE OF APPLICANT)

1

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

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EXHIBIT A

ORIGIN AND BREEDING HISTORY

Deltapine SR-980 originated from an F4 plant selected in 1972 from a cross made in 1968 between CA788 and Deltapine SR-2.

Individual plant selection in the final cross was begun in the F2 in 1969, with plant selections within progeny rows in the F3 in 1970 and the F4 in 1972.

Deltapine SR-980 was tested in progeny rows in the F5 in 1973. From 1974 to 1979, Deltapine SR-980 was tested in replicated variety trials at various High Plains locations.

Deltapine SR-980 has also been tested by public experiment stations. The experimental designation since 1973 has been Deltapine 6865-980-02-210.

The stability of Deltapine SR-980 derives from the fact that is originated from a single plant F4 selection that has been carefully maintained as a separate entity to assure that the variety remains true breeding.

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OF AGRICULTURE

AMS, LPG&S DIV.
PVPQ

DELTA & PINE LAND COMPANY, LUBBOCK, TEXAS 79401
 6-3-81 Amendement to Cotton Application No. 8100098 - Deltapine SR-980

EXHIBIT A - VARIANTS

Variations in phenotypic characters in Deltapine SR-980 which have been noted during its development are differences in smoothness of leaf within the population. These differences are rated visually by means of the scale and descriptions given below.

<u>SCALE</u>	<u>DESCRIPTION</u>	<u>Reference Variety</u>
4	Very Heavy Pubescence	Deltapine 41
5	Heavy Pubescence	
6	Moderate Pubescence	Deltapine SR-4
7	Deltapine Smoothleaf	Deltapine 61
8	Glabrous	

Those Plants which are given a rating of more than 6 are classified as smooth leaf plants in our rating system. These smooth leaf plants are variant plant type in Deltapine SR-980.

This variation is described under EXHIBIT C, Item 8, and detailed in Table C IX.



DELTA & PINE LAND COMPANY, LUBBOCK, TEXAS 79401
8-17-81 Amendment to Cotton Application No. 8100098 'Deltapine SR-980'

EXHIBIT A

The following statement should be added to the application:

"Deltapine SR-980 has been observed over several generations and years to be stable for all characteristics described."



EXHIBIT B

DELTA & PINE LAND COMPANY'S APPLICATION FOR DELTAPINE SR-980

Data Indicative of Novelty

Deltapine SR-980 most nearly resembles Deltapine SR-2 (PVP N. 72043). Deltapine SR-2 is one of the parents of Deltapine SR-980. Deltapine SR-980 has been compared to Deltapine SR-2 in Research Department tests during the period 1974-80 as shown in the following:

Table B I - Comparison of Deltapine SR-980 and SR-2

	<u>Deltapine SR-980</u>	<u>Deltapine SR-2</u>	<u>Difference</u>
Lint Yield (lbs.) (1974-80)	557	509	+48
Percent of check (%)	109	100	+9
Lint Percent (%)	21.5	21.1	+0.4
Plant Height (Index)	2.7	2.7	0
Retention of Seed Cotton in Boll (Index)	3.1	3.0	+0.1
Percent Wilt (Verticillium dahliae)	40	62	+22
Fiber Length Servo-Fibrograph (in.)	0.99	1.00	-0.01
Fiber Length Uniformity Ratio	77.5	77.6	-0.1
Fiber Strength (grams/tex)	23.6	23.8	-0.2
Micronaire (units)	3.0	3.3	-0.3

The above table represents an average of five years and includes fifteen tests. Yield results are reported by years and by tests in the attached table (BI 1). Copies of the original tables from Delta & Pine Land Company records are available, but are not attached.

The principal feature of Deltapine SR-980 is an improved level of resistance to Verticillium Wilt. This is best demonstrated by putting together results of those tests where wilt infection was rated. The following table covers wilt tests in four years and non-wilt tests in five years. The results are summarized as follows:

Table B II - Comparison Deltapine SR-980 and SR-2 in the Presence and Absence of Wilt

	<u>Deltapine SR-980</u>	<u>Deltapine SR-2</u>	<u>Difference</u>
Yield Wilt Present	592	467	125
Yield Wilt Absent	515	474	41
Yield % Check-Wilt Present	127	CK	27
Yield % Check-Wilt Absent	108	CK	8
Wilt Percentage (Wilt Present)	40	62	22

Results in Table BII were taken from tests shown in Table B I 1.

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DELTA & PINE LAND COMPANY, LUBBOCK, TEXAS 79401
6-3-81 Amendment to Cotton Application No 8100098 - Deltapine SR-980

EXHIBIT B

'Deltapine SR-980' is resistant to verticillium wilt in comparison to its most similar variety - 'Deltapine SR-2'.
'Deltapine SR-2' is susceptible to verticillium wilt.

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DELTA & PINE LAND COMPANY, LUBBOCK, TEXAS 79401
 6-3-81 Amendment to Cotton Application No. 8100098 - Deltapine SR-980

TABLE C IX

Variants for leaf pubescence in Deltapine SR-980 are smoothleaf type as determined by the classingsystem described in EXHIBIT A.

<u>CLASS</u>	<u>% TOTAL POPULATION</u>	
	<u>Deltapine SR-980</u>	<u>Deltapine SR-5</u>
4-5	15.0	6.7
6	58.0	24.6
7-8	27.0	58.6
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> $\begin{matrix} 15.0 \\ 58.0 \end{matrix} \rightarrow 63.0\% \text{ Hairy}$ </div> <div style="text-align: center;"> $\begin{matrix} 6.7 \\ 24.6 \end{matrix} \rightarrow 31.3\% \text{ Hairy}$ </div> </div>	

Deltapine SR-980 has a moderate hairy leaf as indicated above, with over 50% of the plants within the population rating a '6' for leaf pubescence. The comparison variety with the same type of pubescence rating would be Deltapine SR-4.

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Table B 11 - cont.

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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Cotton)

OBJECTIVE DESCRIPTION OF VARIETY

COTTON (GOSSYPIMUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Delta & Pine Land Company, Southwestern Div.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

Route 1, Box 110
Lubbock, Texas 79401

FOR OFFICIAL USE ONLY

PVPO NUMBER

8100098

VARIETY NAME OR TEMPORARY DESIGNATION

Deltapine SR-980

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g., or) when number is either 99 or less or 9 or less.

1. SPECIES:

1 = GOSSYPIMUM HIRSUTUM 2 = GOSSYPIMUM BARBADENSE

2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted):

EASTERN DELTA CENTRAL HIGH PLAINS EL PASO AREA
 WESTERN LOW HOT VALLEYS SAN JOAQUIN OTHER (Specify) Oklahoma

3. MATURITY (50% Open Boll):

NO. OF DAYS EARLIER THAN } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
 NO. OF DAYS LATER THAN } 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER (Specify) Deltapine SR-4

4. PLANT HABIT:

1 = SPREADING 2 = INTERMEDIATE 3 = COMPACT 1 = FOLIAGE SPARSE 2 = DENSE
3 = OTHER (Specify) _____

5. PLANT HEIGHT: *3. Taller than Pay. 303*

CM. SHORTER THAN } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
Similar to #2 98W 6/15/81
 CM. TALLER THAN } 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER (Specify) Deltapine SR-2

6. MAIN STEM:

1 = LAX 2 = ASCENDING 3 = ERECT CM. TO FIRST FRUITING BRANCH NO. OF NODES TO FIRST FRUITING BRANCH (from cotyledonary node)

7. LEAF:

CM. WIDTH OF WIDEST LEAVES AT MATURITY

8. LEAF PUBESCENCE:

8/19/81 1 = GLABROUS (HAIRS AS SPARSE AS D₂ SMOOTH)
 2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) 3 = PUBESCENT (STONEVILLE 213)
4 = HEAVY PUBESCENCE (H₁ OR H₂) 5 = OTHER (Specify) Deltapine SR-4

9. LEAF COLOR:

1 = VIRESCENT YELLOW 2 = LIGHT GREEN 3 = DARK GREEN (Acala-442) 4 = RED
5 = OTHER (Specify) _____

10. LEAF TYPE:

1 = NORMAL 2 = OKRA 3 = SUPER OKRA 4 = OTHER (Specify) _____

11. FLOWER:

1 = NECTARILESS 2 = NECTARIED

Petals: 1 = CREAM 2 = YELLOW Pollen: 1 = CREAM 2 = YELLOW

12. FRUITING BRANCH TYPE:

1 = CLUSTER 2 = SHORT 3 = NORMAL 1 = DETERMINATE 2 = INDETERMINATE

13. GOSSYPOL CONDITION:

1 = GLANDLESS 2 = REDUCED GLANDS 3 = NORMAL GLANDS 1 = NORMAL BUD GOSSYPOL
4 = OTHER (Specify) _____ 2 = HIGH BUD GOSSYPOL

14. SEEDS:

± SEED INDEX (Fuzzy seed basis) Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16)
3 = HEAVY (ACALA SJ-1) 4 = OTHER (Specify) _____

15. BOLLS:

Locules: 1 = 3-4
 2 = 4-5 NO. SEEDS PER BOLL LINT PERCENT MM. DIAMETER
 Pitted: 1 = NONE
 2 = FINELY GRAMS SEED COTTON Breadth: 1 = BROADER AT BASE
 3 = COARSELY PER BOLL 2 = BROADER AT MIDDLE
 Type: 1 = STORMPROOF (WESTBURN 70)
 2 = STORM RESISTANT (LANKART 57) Shape: 1 = LENGTH < WIDTH
 3 = OPEN (DELTAPINE 16) 2 = LENGTH = WIDTH
 3 = LENGTH > WIDTH

16. BRACTEOLAS:

Breadth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH
 Teeth: 1 = FINE 2 = COURSE Teeth: 1 = 3-4 2 = 5-7 3 = 8-10
 4 = OTHER (Specify) _____

17. YIELD: Compared to--

PERCENT LESS THAN } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
 4 = PAYMASTER 111 5 = ACALA 1517-70 8 = Other
 6 = ACALA SJ-1 7 = LANKART 57 Deltapine SR-2

18. FIBER LENGTH (Complete one or more of the following and give the means):

SPAN LENGTH 50% SPAN LENGTH 2.5% U.H.M. LENGTH
 MEAN LENGTH STAPLE LENGTH 32nd INCHES
 UNIFORMITY RATIO (MEAN/U.H.M.) UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

1,000 P.S.I. ELONGATION E₁ STILOMETER T₀
 MICRONAIRE READING YARN STRENGTH (Give test method) STILOMETER T₁

20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

VERTICILLIUM WILT FUSARIUM WILT ROOT KNOT NEMATODE BACTERIAL BLIGHT (Race 1)
 BACTERIAL BLIGHT (Race 2) ASCOCHYTA BLIGHT PHYMATOTRICHUM ROOT ROT RHIZOCTONIA
 ANTHRACNOSE RUST OTHER (Specify) _____

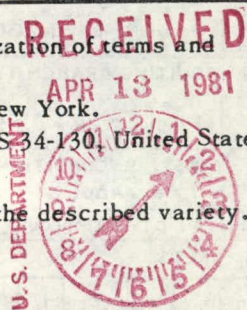
21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

BOLL WEEVIL APHID FLEAHOPPER LEAFWORM
 FALL ARMYWORM GRASSHOPPER LYGUS PINK BOLLWORM
 STINKBUG THRIP CUTWORM SPIDERMITES
 OTHER (Specify) _____

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

- (1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.
- (2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-1301 United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.



ASSIGNMENT

The undersigned (the "Seller"), for good and valuable consideration hereby assigns to TERRA CHEMICALS INTERNATIONAL, INC., a Delaware corporation, and its successors and assigns (the "Buyer"), all of the undersigned's right, title and interest in and to all of the Seller's breeding rights to all generations of "stripper type" cotton seed now owned by the Seller, including, but not limited to, those described on Schedule 1 annexed hereto, and any varieties pending registration, all experimental varieties either in the increase stage or in the laboratory testing stage and all research (including such data as may be on computers), strains and materials.

This instrument is being executed in order to record the assignment described herein with the Plant Variety Protection Office of the Department of Agriculture pursuant to Section 2531(d) of Title 7 of the United States Code and the regulations promulgated thereunder.

IN WITNESS WHEREOF, the Seller has caused this Assignment to be executed on its behalf by its duly authorized officer on this 31 day of March, 1983.

DELTA PINE LAND COMPANY

By


F.W. Canfield



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STATE OF TENNESSEE

COUNTY OF SHELBY

Before me, a Notary Public, in and for said State and County, duly commissioned and qualified, personally appeared F. W. CANFIELD, known to me to be the person whose name is subscribed to the foregoing instrument and known to me to be the Financial Vice President of DELTA AND PINE LAND COMPANY, a corporation, and acknowledged to me that he executed said instrument for the purposes and consideration therein expressed, and as the act of said corporation.

Given under my hand and seal of office this 3d day of March, 1983.

Louise Webb

Notary Public

My commission expires:

My Commission Expires March 17, 1986



1885



Cotton Seed Varieties of Delta and Pine Land
Company for which Certificates have been issued

<u>Variety</u>	<u>Certificate No.</u>	<u>Certificate Date</u>
Deltapine SR-1	7200042	6/27/75
Deltapine SR-2	7200043	6/27/75
Deltapine SR-4	7500089	6/17/76
Deltapine SR-5	8000052	12/18/80
Deltapine SR-980	8100098	11/19/81
Deltapine SR-482	8200067	7/15/82
Deltapine SR-383	8200137	12/30/82

1891



ASSIGNMENT

The undersigned (the "Sellers"), for good and valuable consideration, hereby sells, assigns and transfers to Summit Seed Company, Inc., a Texas corporation, and its successors and assigns (the "Buyer") all of the undersigned's right, title and interest in and to the following plant varieties:

Certificate Number 8400088, Terra SR-10
Certificate Number 7200043, Deltapine SR-2
Certificate Number 7500089, Deltapine SR-4
Certificate Number 8000052, Deltapine SR-5
Certificate Number 8200137, Deltapine SR-383
Certificate Number 8200067, Deltapine SR-482
Certificate Number 7200042, Deltapine SR-1
Certificate Number 8100098, Deltapine SR-980

This instrument is being executed in order to record the assignment described herein with the Plant Variety Protection Office, the Department of Agriculture pursuant to Section 2531(d) of Title 7 of the United States Code and Regulations promulgated thereunder.

IN WITNESS WHEREOF, the Sellers have caused this Assignment to be executed on their behalf by their duly authorized officers effective on the 27th day of August, 1986.

TERRA SEED COMPANY

By: Gregory J. Duerksen
Gregory J. Duerksen
Its: Vice President

TERRA INTERNATIONAL, INC.

By: Gregory J. Duerksen
GREGORY J. DUEKSEN
Its: VP, Marketing & Development

STATE OF Iowa §

COUNTY OF Woodbury §

THIS INSTRUMENT ACKNOWLEDGED BEFORE ME on this the 4th day of May, 1988, by Gregory J. Duerksen, Vice President of Terra Seed Company.

Brenda S. Bradley
Notary Public State of Iowa
BRENDA S. BRADLEY, Notary Public
In and for the State of Iowa
My Commission Expires Aug. 18, 1989

STATE OF Iowa §

COUNTY OF Woodbury §

THIS INSTRUMENT ACKNOWLEDGED BEFORE ME on this the 4th day of May, 1988, by Gregory J. Duerksen, Vice President of Terra International, Inc.

Brenda S. Bradley
Notary Public State of Iowa
BRENDA S. BRADLEY, Notary Public
In and for the State of Iowa
My Commission Expires Aug. 18, 1989

BILL OF SALE

DATE: May 6, 1988

SELLER: Summit Seed Company, Inc., a Texas corporation

SELLER'S ADDRESS: 622 28th Street
Lubbock, Lubbock County, Texas 79401

BUYER: West Texas Seed and Delinting, Inc., a Texas corporation

BUYER'S ADDRESS: Box 335
Slaton, Lubbock County, Texas 79364

CONSIDERATION: TEN AND NO/100THS DOLLARS (\$10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged.

PERSONAL PROPERTY: (1) Certain fixed assets of Seller relating to its cotton seed business, including those assets listed on Exhibit "1" attached hereto.

(2) Seller's entire cotton breeding and research program, expressly including the breeding rights to all cotton varieties or strains now owned by Seller, including, but not limited to those registered varieties described in Exhibit "2" attached hereto, the advance experimental strains of cotton varieties listed in Schedule "3" attached hereto and all other experimental strains or varieties either in the increased stage or in the laboratory testing stage, and all research data, strains, crosses, seeds, and materials relating to cotton and/or Seller's cotton seed business.

(3) All of Seller's intellectual property rights, whether registered or not, including, without limitation, trade secrets, software, trademarks, service marks, registered names, copyrights, certificates of plant variety protection, and patents relating to Seller's cotton seed business or the assets conveyed herein, except, however, Seller does not convey any goodwill connected with the name "Summit Seed Co." or any variations thereof and WTS&D shall not have the right to use such name except in sale of existing bags, containers and/or labels bearing the Summit name.

(4) All of Seller's existing inventory of registered and breeder's cotton seed, together with all bags, labels and other containers associated with said inventory of cotton seed, and the right to use the labels, and containers in the course of sale of such inventory.

(5) All of Seller's right, title and interest in any claims, causes of action and judgments relating to Seller's cotton seed business for the assets conveyed herein.

(6) All books, records, and other data relating to Seller's cotton seed business or to the purchased assets, including, without limitation, all customer lists, fixed asset records, purchase orders, invoices, sales orders, correspondence, contract files, sales literature, catalogues, brochures, price lists, and product data.

FOR VALUE RECEIVED Seller sells and delivers the



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personal property to Buyer and warrants and agrees to defend
title to the personal property to Buyer against all lawful
claims.

SUMMIT SEED COMPANY, INC., a Texas
Corporation

By: Gary Rea
Gary Rea
Its: President


ATTEST:

Jerry Parker
Jerry Parker, Secretary



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EXHIBIT "1"



One John Deere LP Tractor
One Debur Machine
One 10 Saw Table Gin
One Cotton Press
One 10 Saw Eagle Gin
One Lint Cleaner
One Research Gin
One Micronaire Gage
One Smith Air Compressor
One Cotton Stripper
One Acid Delinter
One Saw Gin Condenser
One Four Row Planter with Cones



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EXHIBIT "2"

PVP Certificate Number 8400088, Terra SR-10
PVP Certificate Number 7200043, Deltapine SR-2
PVP Certificate Number 7500089, Deltapine SR-4
PVP Certificate Number 8000052, Deltapine SR-5
PVP Certificate Number 8200137, Deltapine SR-383
PVP Certificate Number 8200067, Deltapine SR-482
PVP Certificate Number 7200042, Deltapine SR-1
PVP Certificate Number 8100098, Deltapine SR-980.



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EXHIBIT "3"

X41431

X41432

X41427

X41428

X41402

X61003

X61002

X61001

X61004

Any and all other experimental varieties in existence owned by
Summit.

SECURITY AGREEMENT

Date May 6, 1988WEST TEXAS SEED & DELINTING, INC.
(Debtor's Name)P. O. Box 355
Street AddressSlaton
CityLubbock
CountyTexas 79364
State

(hereinafter called DEBTOR) for value received hereby grants to

LORENZO STATE BANK

(Secured Party's Name)

(hereinafter called SECURED PARTY) whose address is P. O. Box 490

Street

Lorenzo, Crosby County, Texas 79343

City, County, and State

a security interest in and mortgages to SECURED PARTY the following described property (which hereinafter is referred to as COLLATERAL) to-wit:

All of Debtor's right, title and interest in and to the following Plant Variety Protection Certificates, each in the name of West Texas Seed & Delinting, Inc.

1. Certificate No. 8400088, Terra SR-10
2. Certificate No. 7200043, Deltapine SR-2
3. Certificate No. 7500089, Deltapine SR-4
4. Certificate No. 8000052, Deltapine SR-5
5. Certificate No. 8200137, Deltapine SR-383
6. Certificate No. 8200067, Deltapine SR-482
7. Certificate No. 7200042, Deltapine SR-1
8. Certificate No. 8100098, Deltapine SR-980

(Note—If COLLATERAL is crops, or oil, gas or minerals to be extracted, or timber to be cut, or if COLLATERAL is to become a fixture, describe in the above space following the description of the COLLATERAL the real estate concerned, and give the name of the record owner hereof.)

to secure DEBTOR'S note to SECURED PARTY dated May 6, 19 88, for \$365,000.00.

DEBTOR warrants and covenants:

(Note—Place checkmark (✓) in the blank space before each statement which applies to this agreement.)

- () COLLATERAL is to be used for personal, family, or household purposes.
(☒) COLLATERAL is to be used in business other than farming operations.
() COLLATERAL is equipment used in farming operations, or farm products, or accounts, contract rights or general intangibles arising from or relating to the sale of farm products by a farmer.
() COLLATERAL is accounts or contract rights and the records concerning same are kept at

or if left blank at address given for DEBTOR.

- () COLLATERAL is a fixture attached to or to become a fixture attached to the above described land.
() COLLATERAL is being acquired by DEBTOR from SECURED PARTY or is being acquired with the proceeds of the advance evidenced by this agreement.

DEBTOR'S residence is at:

P. O. Box 355, Slaton, TX 79364

(Address)

COLLATERAL will be kept at:

P. O. Box 355, Slaton, TX 79364

(Address)

DEBTOR'S chief place of business is at:

P. O. Box 355, Slaton, TX 79364

(Address)

The warranties, covenants, terms and agreements on the reverse side hereof are incorporated herein and made a part hereof for all intents and purposes. DEBTOR and SECURED PARTY as used in this Security Agreement include the heirs, executors or administrators, successors or assigns of those parties.

SECURED PARTY:

DEBTOR:

LORENZO STATE BANK

Name

By

(Signature)

(Title)

MAX JOINER, Exec. Vice President

WEST TEXAS SEED & DELINTING, INC.

Name

(Signature)

(Title)

H. R. DONALDSON, President

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8100098

SALE AND ROYALTY AGREEMENT

This Agreement made and entered into on the date hereinafter written, by and between **SOUTHLAND SEED COMPANY**, a Texas partnership, hereinafter called "Southland," and **SEEDCO CORPORATION**, a Texas corporation, hereinafter called "Seedco," as follows:

WHEREAS, Southland is the owner of certain equipment and an inventory of planting seed including legally protected varieties of seed, and

WHEREAS, Seedco desires to purchase the equipment owned by Southland identified in the attached Exhibit "A" for the price set out in the attached Exhibit "A" upon the terms and conditions set out in the Agreement, and

WHEREAS, Seedco further desires to purchase the inventory of planting seed of Southland and the right to reproduce and market the seed varieties of Southland upon the terms and conditions set out in this Agreement, and

WHEREAS, the parties have entered into this Agreement for the purpose of evidencing their agreements and intentions in connection with the property and rights to be acquired by Seedco from Southland.

NOW, THEREFORE, for and in consideration of the mutual benefits to the parties hereto and the covenants and agreements set out herein, it is mutually agreed as follows:

10. Texas Law to Apply. This contract shall be construed and enforced in accordance with the laws of the State of Texas, and all obligations hereunder are performable in Lubbock County, Texas.


11. Binding Effect. This Agreement shall be binding on the parties hereto, their heirs, legal representatives, successors, and assigns to the extent of any permitted assignment.

DATED this 7th day of October, 1991, but effective September 1, 1991.

SOUTHLAND SEED COMPANY,
A Texas Partnership

P.O. Box 335
Slaton, Texas 79364

By: 
JIM GRAY, Partner

By: 
JAY FRANK GRAY, Partner

SEEDCO CORPORATION

103 East Erskine
Lubbock, Texas 79403

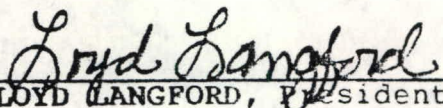
By: 
LOYD LANGFORD, President

EXHIBIT "A"

ASSET LIST

Plant Variety Protection on Following Varieties:

1. Deltapine SR 482
2. Deltapine SR 383
3. Southland M-1
4. Southland 007 - Ready for PVP
5. Terra SR 10
6. Southland 400
7. All germplasm in the **SOUTHLAND SEED COMPANY** research program.
8. All existing PVP
9. All bagged seed in the possession of **SOUTHLAND SEED COMPANY**

TOTAL: \$200,996.00

Research Equipment

1. Hance Lab Seed Cleaner
2. Toledo Scales - 100 lbs.
3. Toledo Scales - 500 gm.
4. Eagle 10 Saw Gin
5. 8 Saw Table Model Gin
6. Debur Machine
7. Cotton Seed Oil Press
8. Small Delinting Line with Dryer
9. Cement Mixer (for delinting)
10. Cotton Stripper 282 J.D.
11. 4 Row Planter 6100 J.D.
12. 4 Almaco Belt Cones
13. Sortex Pneumatic Separator
14. Miscellaneous Small Research Supplies and Equipment

Office Equipment and Furniture

1. Fax Machine RF 850
2. 1 Wood Executive Desk and 3 Chairs
3. 1 Metal Credenza
4. 4 Metal Desks
5. 13 Office Chairs
6. 1 Fireproof File Cabinet
7. 5 Work Tables
8. 5 Book Shelves
9. Customer List
10. All Computer Software Pertaining to SSC

TOTAL EQUIPMENT: \$ 26,000.00

TOTAL PURCHASE PRICE: \$226,996.00 plus
the total amount
of "fuzzy seed"
(to be calculated
after closing) at
\$160.00 per ton.

Rec'd 2-1-94
akz

WEST TEXAS SEED

AND DELINTING, INC.

FM 400 North - P.O. Box 335 - Slaton, Texas 79364 - (806) 828-5845

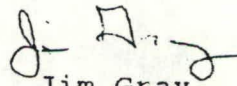
To Whom It May Concern:

The Plant Variety Protection for Southland M-1 and Southland 400 are under the name of Southland Seed Company.

The Plant Variety Protection for Deltapine SR-383, 482, SR-5, 980 and Terra SR-10 are under the name of West Texas Seed & Delinting, Inc.

Southland Seed Company was a subsidiary of West Texas Seed & Delinting, Inc. and at the time of purchase were one in the same.

All varieties listed above under Southland Seed Company and West Texas Seed & Delinting, Inc. were all owned by the same entity.


Jim Gray
Owner/Manager

